

## **ABSTRACT**

A catalytic muffler having a housing with a first chamber and a second chamber fluidly communicating through a catalyst bed interspersed there between. A first baffle assembly in the first chamber extends between the catalyst bed and the housing. An inlet passage extends through the housing into the first chamber. An outlet passage extends through the housing into one of the first and second chambers. A second baffle assembly in the second chamber extends between the catalyst bed and the housing. The first and second baffle assemblies act in conjunction with the housing and the reactor bed to define a flow passage through the housing from the inlet passage through at least three discreet zones of the reactor bed to the outlet passage.